

# CONTENTS AND INDEX

NEW SERIES. VOL. CI—JANUARY TO JUNE, 1945

THE NAMES OF CONTRIBUTORS ARE PRINTED IN SMALL CAPITALS

- ABBOT, C. G., Coincidence of Errors, 144; Radiometer, 244; Sun's Radiation, 483
- Abscission of Apple Fruits, H. B. TUKEY and C. L. HAMNER, 253; L. P. BATJER and P. C. MARTH, 363
- Academies: *Science*, New Hampshire, 33; Texas, 33; Washington, 195, 296; Pennsylvania, 402; National, 453; Kansas, 555; Wisconsin Junior, 555; Texas, 578; Virginia, 579; U.S.S.R., 603; *Arts and Sciences*, American, 503; *Medicine*, Soviet, 401
- Acids: Amino, C. H. TAFT, 144; R. G. KESEL *et al.*, 230; Synthesis, J. L. STOKES and M. GUNNESS, 43; Folic, and Cancers, R. LEUCHTENBERGER *et al.*, 46; Butyric, H. EAGLE, 69; Nicotinic, Deficiency, W. A. KREHL *et al.*, 283; Ascorbic, Values, and Foods, M. C. SMITH and E. CALDWELL, 308; Nicotinic and Tryptophane, W. A. KREHL *et al.*, 489; Ascorbic and  $\alpha$ -Amino, T. KOPANYI *et al.*, 541; Glucuronic, and Penicillin, D. PERLSTEIN *et al.*, 562; Ascorbic, M. KLEIN, 587; Para-Aminobenzoic, and Spotted Fever, L. ANGSTEN and M. N. BADER, 591; Soil Minerals, P. G. NUTTING, 619; 2,4-Dichlorophenoxyacetic, E. C. STEVENSON and J. W. MITCHELL, 642; Uronic, W. E. BAIER *et al.*, 670
- Agriculture: Research, J. H. MACGILLIVRAY *et al.*, 143; Biology, R. F. GRIGGS, 235; National Research Council, 296; and Microbial Metabolism, R. E. BUCHANAN, 341; Food and, Organization in India, 553
- ALBANESE, A. A., on Tryptophane Deficient Diet, 619
- ALDERTON, G. *et al.*, Lysozyme, Biotin and Avidin, 151
- ALEXANDER, B. and G. LANDWEHR, Human Nutrition, 229
- ALEXANDER, H. L. *et al.*, Precipitin Test, 547
- ALEXANDER, J. and A. W. STERN, Pure Science, 37
- ALEXANDER-JACKSON, E., Leprosy, 563
- Algae, Marine, of California, G. M. SMITH, 188
- ALLARD, H. A., Botanists as Military Tacticians, 678
- Alloxan, Microbiological and Fluorometric Test, V. DU VIGNEAUD *et al.*, 647
- American Association for the Advancement of Science: SCIENCE, F. R. MOULTON, 8; C. F. KETTERING, Z. JEFFRIES, 8; Officers, 10; Sam Woodley, B. E. LIVINGSTON, 551
- ANDERSON, T. F., Bacterial Virus and Host, 565
- ANDERSON, T. G., Urease Test for Proteus, 470
- ANIGSTEIN, L. and M. N. BADER, Spotted Fever, 591
- Animal and Plant Stocks, W. LANDAUER, 497
- Antibacterial Action of 2-Methyl-1,4-Naphthoquinone, C. A. COLWELL and M. MCCALL, 592
- Antibiotics, I. N. ASHESHOV and F. STRELITZ, 621
- Antibodies, W. E. EHRLICH and T. N. HARRIS, 28
- Antigen-Antibody Reaction in Infectious Mononucleosis, P. LEVINE and E. L. GILMORE, 411
- Ants, Caste Differentiation, S. E. FLANDERS, 245
- Apparatus: Lyophilization, A. F. POMES and G. W. IRVING, JR., 22; Manometric, W. A. ROBBIE and P. J. LEINFELDER, 48; Magnetic Stirrer, M. WINOKUR, 49; Electrode, R. W. WEST and E. S. AMIS, 71; Gage Recorder, H. GRUNDFEST *et al.*, 255; Light Box, M. C. RICHARDS, 312; Microorganism, R. W. LEWIS and E. H. LUCAS, 364; Grapevine Injection, W. O. WILLIAMS, 416; Volumeter, W. F. SIMPSON, 443; Plugs for Tubes, O. K. STARK, 521; Filtration Adapter, N. APPELZWEIG, 548
- APPELZWEIG, N., Filtration Adapter, 548
- ARMSTRONG, P. B., Peripheral Nerve Terminations, 327
- Arsenic Trioxide, J. C. FINERTY and J. D. GRACE, 359
- Arthritis, Rheumatoid, H. A. FREUND *et al.*, 202
- ASHESHOV, I. N. and F. STRELITZ, Mycobacterium-Tuberculosis, 119; Antibiotics, 621
- Awards, Prizes and Medals: Mathematical Society, Cole Prize, 13; Bernays Radio Award, 59; Mineralogical Society, Roebling Medal, 111; Aeronautical Sciences Awards, 138; American Institute Chemists, Gold Medal, 139; Geological Society, London, 193; American Institute of Mining and Metallurgical Engineers, Awards, 218; John Wesley Hyatt Award, 266; Washington Academy of Sciences, Awards, 296; American Chemical Society, 321; Franklin Institute Medals, 322, 349; Passano Award, 374; Design Awards Luncheon, 426
- Bacterial: Dissociation, W. BRAUN, 182; Growth and Disinfection, F. H. JOHNSON and I. LEWIN, 281
- Bacteriology, Concept of a Strain, G. H. CHAPMAN, 429
- Bacteriophage and Light Microscope, A. W. HOFER and O. W. RICHARDS, 466
- BAIER, W. E. *et al.*, Uronic Acids in Animal Bodies, 670
- BAKER, J. R. *et al.*, Society for Freedom in Science, 273; Threat to Pure Science, 300
- BALL, E. G. *et al.*, Malaria Parasite in Vitro, 542
- BARAC, G., Plea for Publications, 586
- BARTLETT, J. C., JR., Spots Producing Terrestrial Magnetic Phenomena, 327
- BATJER, L. P. and P. C. MARTH, Fruit Abscission, 363
- BEACH, F. A., "Angry" Mosquitoes, 610
- BEARD, J. W. *et al.*, Swine Influenza Virus, 544
- BERNARD, R. and P. GENEST, Sulfonamides and Egg-Shell Formation, 617
- BERNHEIM, F. and M. L. C., Inactivation of Marfanil, 547
- BERRY, E. W., Age of Punjab Salt Series, 87
- BEYER, K. H. and W. M. GOVIER, Deamination of "Marfanil," 150
- Biological: Abstracts, 216; Extrapolation to the Social, R. W. GERARD and A. E. EMERSON, 582
- Biologists, Booklets for Latin-American, 167
- Biology: and Integrative Levels, A. B. NOVIKOFF, 209; and Agriculture, R. F. GRIGGS, 235; Experimental, 578
- Biometric Bulletin, 633
- BIRCH, H. G., Psychological Race Differences, 173
- Birds, Heart Rate, E. P. ODUM, 153
- BITTNER, J. J. *et al.*, Mammary Tumor Milk Agent, 95
- BLAKE, C. H., Orthography of Names, 174
- Blancan as a Time Term, M. K. ELIAS *et al.*, 270
- Blood: Proteins, Therapeutic Value, E. J. COHN, 51; Rh Types, Nomenclature, L. H. SNYDER, 62
- Bone Formation and Spinaeh, R. E. REMINGTON and C. L. SMITH, 271
- Botanical: Cinchona Missions, W. C. STEERE, 177; L. R. HOLDRIDGE, 638; *Gardens*: New York, 82; Fiftieth Anniversary, 479; U. S., M. VAN REMLAR, 678
- Botanists as Military Tacticians, H. A. ALLARD, 678
- Botany, Wood's Class-book, C. J. LYON, 484
- BRANDWEIN, P. F., "Science" Talent Search, 117
- BRAUN, W., Bacterial Dissociation, 182
- BRONFENBRENNER, J. and C. B. FAVOUR, Penicillin, 673
- BROOKS, M., Bird Flight and Migration, 329
- BROWN, C. E., A and B Scales on Slide Rules, 522
- Brucellosis, Bovine, I. F. HUDDLESON *et al.*, 358
- BRUES, C. T. and R. C. DUNN, Penicillin and Sulfa Drugs, 336
- BUCHANAN, R. E., Microbial Metabolism, 341
- BURINGTON, R. S., New Frontiers, 313
- Butanediol-Glycerol, 2,3-, Fermentation, A. C. NEISH *et al.*, 245
- CAMPBELL, B., Motor Neurons, 412
- CAMPBELL, L., Outburst of Nova (T) Pyxidid, 429

- Cancer: Nutrition, V. R. POTTER, 103; Pilot Courses, 425; Exercise and Food, H. P. MORRIS, 457; of Urinary Tract, G. N. PAPANICOLAOU and V. F. MARSHALL, 519; Enzyme-Virus V. R. POTTER, 609; Grants, 662
- CANTAROW, A. *et al.*, Inactivation of Estrogens, 558
- Carbohydrates, Translocation, W. E. LOOMIS, 398
- CARMICHAEL, P. A., Improbability and Impossibility, 16
- Chaos, Encystment and Excystment, E. J. WENSTRUP, 407
- CHAPMAN, G. H., Concept of a Strain in Bacteriology, 429
- CHARNEY, J. *et al.*, Urinary Excretion of Penicillin, 251
- Chemists, "Starring" in "American Men of Science," R. J. WILLIAMS, 222; Income of Professional, 240
- CHESLER, A. and R. TISLOWITZ, Diabetes, 468
- CHILD, GEORGE P., Protection of Pancreatic Lipase, 311
- Choline, Microbiological Determinations, L. SIEGEL, 674
- CHOW, B. F. and C. M. MCKEE, Penicillin and Plasma, 67
- Chromatolysis and Antidromic Potential of Motor Neurons, B. CAMPBELL, 412
- Cinema and Body Temperature, M. KLEITMAN, 507
- CLARK, G. L. and F. W. CAGLE, JR., Structure of DDT, 465
- CLARK, H. F., Experiments in Social Sciences, 393
- Clavacin Isomer, Synthesis, B. PUETZER *et al.*, 307
- Clostridium Chauvei, Susceptibility of Hamsters, J. F. RYFF and A. M. LEE, 361
- COCKERELL, T. D. A., Biological Research and Publication, 377; Employment After the War, 639
- Coeleplana on American Shores, F. G. W. SMITH, 17
- COHN, A. E., Disease of the Heart, 471; 499
- COHN, E. J., Blood Proteins, Therapeutic Value, 51
- Colchicine, Aerosol Method, J. W. MCKAY *et al.*, 154
- Coleoptile Curvature Measurement, W. P. JUDKINS, 568
- Colorimetric Method for Micro-determination, H. A. STIFF, JR., and J. C. CASTILLO, 440
- COLWELL, C. A. and M. MCCALL, Antibacterial Action of 2-Methyl-1,4-Naphthoquinone, 592
- COMMISSION ON ACUTE RESPIRATORY DISEASES, Fibrinolysin-Antifibrinolysin Reaction, 120
- COMPTON, A. H., Science and the Nation's Future, 207
- COMPTON, K. T., Board for National Security, 226
- Consanguinity, C. STERN and D. R. CHARLES, 305
- Continental Drift, Fictitious, W. D. LAMBERT, 558
- COPISABOW, M., Marine Fouling and Its Prevention, 406
- COPLEY, A. L., Placental Thromboplastin, 436
- Corn Embryos in Vitro, A. J. HAAGEN-SMIT *et al.*, 234
- Corneal Vascularization and Diet, A. A. ALBANESE, 619
- Corrosion Research Laboratory, 452
- COWDREY, E. V., Shall They Survive?, 625
- COWLES, R. B., Sterility and Evolution, 221
- CRAFTS, A. S., New Herbicide, 417
- CRAM, E. B. *et al.*, Host of Schistosoma Mansoni, 302
- CRONE, G. R., Sponsors of World Exploration, 379
- CRUZ-COKE, E. *et al.*, Purification of Penicillin, 340
- CUNNINGHAM, E. R., Gaps in Files of Periodicals, 62
- Cyclic Hydrocarbons, Strain Energies, K. S. PITZER, 672
- Cystine Peptides, Degradation of, by Tissues, F. M. LEUTHARDT and J. P. GREENSTEIN, 19
- DADOURIAN, H. M., Pressure from Knowledge, 611
- DALE, H., Address of President of Royal Society, 23
- DANIELS, L. B., Peach Mosaic Disease, 87
- DAY, H. G. and E. LEVIN, Sunflower Seed Meal, 438
- DDT: Poisoning and Calcium, Z. VAZ *et al.*, 434; Insecticidal Activity, E. A. PRILL *et al.*, 464; Crystal Structure, G. L. CLARK and F. W. CAGLE, JR., 465
- DE LAUBENFELS, M. W., Sponge Names, 354
- Demographic Dilemma, K. SAX, 325
- DERRICK, W. A. and R. B. HOULIHAN, Myxomatosis in Malnourished Rabbits, 364
- DE TERRA, H., Rainfall, Malaria and Agriculture, 629
- Diabetes, A. CHESLER and R. TISLOWITZ, 468
- Dicumarol, Antibacterial Properties, A. GOTH, 383
- Diet, Effect of Oxalates in, E. F. KOHMAN, 610
- Dietary Allowances, R. M. WILDER, 285
- Dinosaurs, Quarry for, W. L. STOKES, 115
- Disease, Peach Mosaic, L. B. DANIELS, 87
- DODGE, S. D., Education for Social Science Students, 419
- DRABKIN, D. L., Hemoglobin, Glucose and Water, 445
- Drosophila and Insect Wings, R. B. GOLDSCHMIDT, 389
- DUNN, L. C., Scientific Interchange of U. S. and Russia, 200
- DU VIGNEAUD, V. *et al.*, Test for Alloxan, 647
- Dwarfs, White, W. J. LUYTEN, 79
- EAGLE, H., New Trypanocidal Agent, 69
- Earthworms, Phosphorescent, C. N. RAY, 271
- Echolocation, the Word, M. W. JOHNSON, 302
- EDGERTON, H. A. and S. H. BRITT, Science Talent in American Youth, 247
- Education: in Geology, C. R. LONGWELL, 1; in Argentina, J. A. SHELLENBERGER, 64; Engineering, 110; Medical, 194; Social Science, S. D. DODGE, 419
- Eggs, Atmospheric Pressure and Hatchability, R. M. FRAPS, 339; Dirty, Germicidal Substance, V. J. PENNISTON and L. R. HEDRICK, 362; Activation, B. T. SCHER, 645
- EHRENHAFT, F., Rotating Action on Matter in Light, 676
- EHRLICH, W. E. and T. N. HARRIS, Antibodies, 28
- EHRLMAN, F. C., *et al.*, Plasmodium Vivax Chesson, 377
- ELIAS, M. K. *et al.*, Blancan as a Time Term, 270
- ELIAS, W. F. and J. DURSO, Blood, Fecal Streptomycin in E. typhosa, 589
- Embryonic Tissues Transplanted, H. S. N. GREENE, 644
- Embryos, Chick, Oxydase Reaction, H. A. FELDMAN, 646
- Employment, Full, Post-War: J. MAYER, 367; R. J. WILLIAMS, 537; 679; T. D. A. COCKERELL, 639
- Endamoeba Histolytica, Radiation, A. M. STOLL *et al.*, 463
- Endocarditis, Verrucous, W. J. MACNEAL *et al.*, 415
- ENGELBERT, V. E., Fat Content of Guinea-pig Milk, 459
- Engineering, Education and the War, 110; Mechanical, California Institute, 451
- Engineers, Radio, Program of Institute, 331; Chemical, Peruvian Institute, 578
- Errors, Coincidence of, C. G. ABBOT, 144
- Erythrocyte, Hemoglobin, Glucose, Oxygen and Water, D. L. DRABKIN, 445
- Estrogens, Hepatic Inactivation, A. CANTAROW *et al.*, 558
- EVERSON, G. J. and A. H. SMITH, Thiamine, Riboflavin and Niacin in Deep Fat Cooking, 338
- Evolution and Sterility, R. B. COWLES, 221
- Exploration, Sponsors of World, G. R. CRONE, 379
- Exudates, Inflammatory, V. MENKIN, 422
- Facies, Cenozoic, F. B. VAN HOUTEN, 430
- FEINSTEIN, L., Test for Flour Enrichment, 675
- FELDMAN, H. A., Oxydase Reaction in Embryos, 646
- Fellowships: E. I. du Pont de Nemours, 194; National Research Council, Natural Sciences, 322
- Fibrinolysin-Antifibrinolysin Reaction, COMMISSION ON ACUTE RESPIRATORY DISEASES, 120
- FINERTY, J. C. and J. D. GRACE, Arsenic Trioxide, 359
- FISHMAN, W. H. and W. M. GOVIER, Kidney Cocarboxylase, 277
- FISK, R. T. *et al.*, Prolongation of Penicillin Activity, 124
- FLANDERS, S. E., Caste Differentiation in Ants, 245
- Flour, Test for Enrichment, L. FEINSTEIN, 675
- Food: Agricultural Organization in India, 553; Standards, Food and Drug Administration, 553
- Fossil Discovery in California, F. M. STANGER, 559
- FOSTER, J. W., Acid Formation from Penicillin, 205
- FOSTER, R. W., Stars in "American Men of Science," 639
- Foundations: Sugar Research, 34; Ella Sachs Plotz, Grants, 84; Sugar Research, Grants, 110; 426; Nutrition, 241; 402; for Industrial Research, 295; Infantile Paralysis, 374; Passano Award, 374; Rockefeller, 452; Worcester, Experimental Biology, 578
- FRANK, L. K., Research After the War, 433
- FRAPS, R. M., Hatchability of Eggs, 339
- FREUND, H. A. *et al.*, Rheumatoid Arthritis, 202
- FREUND, J. and K. J. THOMSON, Penicillin, 468
- FRIED, J. and O. WINTERSTEINER, Streptothricin and Streptomycin, 613
- FRIEDEN, E. H., Diffusion Constant of Penicillin, 21

- Frontiers, New, R. S. BURINGTON, 313  
Fund, Commonwealth, Annual Report, 83  
Fusaria, Nutritive Value, L. J. VINSON *et al.*, 388
- GARBER, R. J., Plant Breeding and Human Nutrition, 288  
GARRETT, H. E., Race Differences, 16; 404  
Gases in a Closed System, J. B. SENN, 392  
Gene Action in Micro-Organisms, Conference, 241  
Geological Department of Mysore, 295  
Geologists, Mortality among, W. H. HOBBS, 145  
Geology, Education in, C. R. LONGWELL, 1  
Geophysical Union, American, 633  
GERARD, R. W. and A. E. EMERSON, Extrapolation from the Biological to Social, 582  
GERBER, I. E. and M. GROSS, Inhibition of Growth of Mycobacterium Tuberculosis, 616  
GERICKE, W. F., Hydroponics, 142  
Germplasm, Temperature Tolerance, W. V. SMITH, 460  
Glaciation, Boundary, in Canada, W. H. HOBBS, 549  
Glycosuria and Adrenocorticotrophic Hormone, D. J. INGLE *et al.*, 671  
GODDARD, D. R., Respiration or Fermentation, 352  
GOLDSCHMIDT, R. B., Drosophila and Insect Wings, 389  
GONZALEZ, F., Quinones and Penicillin Notatum, 494  
GOTH, A., Antibacterial Properties of Dicumarol, 383  
GRANADOS, H. and H. DAM, Vitamin E-Deficient Rats, 250  
GRANICK, S. and H. GILDER, Porphyrins, 540  
Grants: Sugar Research, 34; 110; Medical Association, 83; Ella Sachs Plotz, 84; Advisory Cancer Council, 662  
Great Britain: Therapeutic Trials Committee, 348  
GREENE, H. S. N., Transplanted Embryonic Tissues, 644  
GREGG, A., Research for Social Progress, 257  
GREULACH, V. A., "Photoperiodism," 353  
GRIGGS, R. F., Postwar Biology and Agriculture, 235  
Growth Inhibition by Hexenolactone, T. HAUSCHKA *et al.*, 383; Stimulator, Colchicine, E. H. NEWCOMER, 677  
GRUNDFEST, H. *et al.*, Strain Gage Recorder, 255; Science and the Draft, 486  
Guinea-pig Milk, Fat Content, V. E. ENGELBERT, 459
- HAAGEN-SMIT, A. J. *et al.*, Corn Embryos in Vitro, 234  
HALSTEAD, W. C., Anoxia and Impairment of Vision, 615  
HAMOR, W. A., War Research at Mellon Institute, 510  
HANNA, D. L., Inorganic Bouncing Putty, 407  
HARTLEY, P., World Standard Penicillin, 637  
HAUSCHKA, T. *et al.*, Growth Inhibition, 383  
Heart, Disease of, A. E. COHN, 471; 499  
HEGRE, E. S., Intracardiac Transplantation, 469; and R. F. BLOUNT, Chin Adjustment for Microscope, 126  
Herbaria, Russian and Others, E. D. MERRILL, 355  
Herbicide, New, A. S. CRAFTS, 417  
HERSKOVITS, M. J., Racial Differences, 200  
HETHERTON, D. C., Mold Preventive for Books, 223  
HICKEY, R. J., Sterility Test for Penicillin, 232; Regeneration of Active Penicillin Esters, 462  
HICKMAN, J. B., Transliteration of Russian, 460  
HOAK, R. D., Abatement of Stream Pollution, 523  
HOBBS, W. H., Mortality among Geologists, 145; Boundary Glaciation in Canada, 549  
HOCKING, G. M., Quinine from Remijia Bark, 484  
HOFER, A. W. and O. W. RICHARDS, Bacteriophage and Light Microscope, 466  
HOLBRIDGE, L. R., Cinchona Mission, 638  
Hormonal Influence, F. W. SMITH, 279  
Hormones, Meta-, Estrogenic, A. LIPSCHÜTZ *et al.*, 410  
HORWITT, M. K., Trypsin and Chymotrypsin, 376  
HOWE, H. H., Azimuthal Equidistant Map, 638  
HUDDLESON, I. F. *et al.*, Bovine Brucellosis, 358  
HULL, A. W., Industrial Research, 157  
HULL, G. F., Rotating Action in a Beam of Light, 220  
Hydrolysis of Choline Esters by Liver, C. H. SAWYER, 385  
Hydroponics, W. F. GERICKE, 142
- Inprobability and Impossibility, P. A. CARMICHAEL, 16  
INGLE, D. J. *et al.*, Glycosuria and Adrenocorticotrophic Hormone, 671  
Insect Physiology, C. M. WILLIAMS, 622
- Insects, Sperm in Eggs, J. T. PATTERSON, 156  
Internationalism, Concept of, E. B. KRUMBHAAR, 73  
Iron in Enriched Bread, W. R. RUEGAMER and C. A. ELVEHJEM, 206  
Isonipeccaine, Anesthetic Properties, E. L. WAY, 566
- JACKSON, DUGALD C., In Honor of, 267  
JEFFRIES, Z., C. F. Kettering, 8  
JOHNSON, F. H. and I. LEWIN, Bacterial Growth and Disinfection, 281  
JOHNSON, M. W., the Word Echolocation, 302  
JONES, D. *et al.*, Virus-Inactivating Substances, 665  
JUDKINS, W. P., Measuring Coleoptile Curvature, 568
- KAHN, M. C. *et al.*, Sounds of Mosquitoes, 335  
KASS, E. H., Serum Gamma-Globulin in Human Lymphocytes, 337  
KEITH, R. W., Growing Rubber, 508  
KESEL, R. G. *et al.*, Amino Acids, 230  
Kidney Cocarboxylase, W. H. FISHMAN and W. M. GOVIER, 277  
KLEIN, M., Virucidal Action Ascorbic Acid, 587  
KLEITMAN, N., Cinema and Body Temperature, 507  
KLOPSTEG, P. E., Productivity of Research, 569  
KNIGHT, C. A., PR8 Influenza Virus, 231  
KNUDSEN, L. F., Penicillin Assay, 46  
KOHMAN, E. F., Effect of Oxalates in Diet, 610  
KOPPANYI, T. *et al.*, Ascorbic Acid and  $\alpha$ -Amino, 541  
KOSOLAPOFF, G. M., Scientific Terminology and Classification, 89; Transliteration of Russian Words, 175  
KRANTZ, J. C., Jr. *et al.*, Oral Penicillin, 618  
KREHL, W. A. *et al.*, Nicotinic Acid Deficiency, 283; Growth-retarding Nicotinic Acid and Tryptophane, 489  
KREIDER, H. R., Vitamin A and Super-Filtrol, 377  
KRUMBHAAR, E. B., Concept of Internationalism, 73  
KUNITZ, M., Trypsin Inhibitor from Soybean, 668
- LAMBERT, W. D., Fictitious Continental Drift, 558  
LANDAUER, W., Plant and Animal Stocks, 497  
LAZIER, W. A., Southern Research Institute, 249  
LEISE, J. M. and L. H. JAMES, Pathogenicity and pH Tolerance Microorganisms, 437  
LEON-BLANCÓ, F. and A. OTEIZER, Pinta, 309  
Leprosy, E. ALEXANDER-JACKSON, 563  
Leptospira, Slide Agglutination, H. P. MINETTE, 256  
LEUCHTENBERG, R. *et al.*, Folic Acid and Cancers, 46  
LEUTHARDT, F. M. and J. P. GREENSTEIN, Degradation of Cystine Peptides by Tissues, 19  
LEVINE, P. and E. L. GILMORE, Antigen-Antibody Reaction in Infectious Mononucleosis, 411  
LEWIS, R. W. and E. H. LUCAS, Microorganisms on a Flowing Medium, 364  
LIBBY, R. L., Oral Administration of Penicillin, 178  
Library, Carnegie, Pittsburgh, 479  
Light Beam, Rotating Action, G. F. HULL, 220; F. EHRENHAFT, 676  
Lipase, Protection of Pancreatic, G. P. CHILD, 311  
LIPSCHÜTZ, A. *et al.*, Estrogenic Metahormones, 410  
Liver: Mitosis, A. MARSHAK and A. C. WALKER, 94; Estrogenic Metahormones in, A. LIPSCHÜTZ *et al.*, 410; Alloxan in, J. A. RUBEN and R. S. TIPSON, 536  
LIVINGSTON, B. E., Sam Woodley, 551  
LONGWELL, C. R., Education in Geology, 1  
LOOMIS, W. E., Translocation of Carbohydrates, 398  
LORENZ, A. J., Scurvy in Parry Expedition of 1819, 36  
LOWMAN, A., Vitamin A, 183  
LUYTEN, W. J., White Dwarfs, 79  
Lymphocyte Content, Depression of, W. O. REINHARDT and C. H. LI, 360  
LYON, C. J., Centennial of Wood's Class Book, 484  
Lysozyme, Biotin and Avidin, G. ALBERTON *et al.*, 151
- MCDERMOTT, W. *et al.*, Oral Penicillin, 228  
MACGILLIVRAY, J. H. *et al.*, Vital Research of Agriculture, 143  
McKAY, J. W., *et al.*, Applying Colchicine, 154  
MACKEE, G. M. *et al.*, Sale of Sulfonamide Drugs, 409  
McLAUGHLIN, D. B., Stellar Variation, 535

- MAC NEAL, W. J. *et al.*, Verrucous Endocarditis, 415  
MCQUARRIE, E. B. and A. T. VENOSA, Protein Intake and Xanthine Oxidase Activity, 493  
Magnetic Phenomena, Spots, J. C. BARTLETT, JR., 327  
Malaria Parasite, In Vitro, E. G. BALL *et al.*, 542; Rain-fall and Agriculture, H. DE TERRA, 629  
Mammals, Handler for Small, L. J. THOMAS, 496  
Mammary Tumor Milk Agent, J. J. BITTNER *et al.*, 95  
Man, Needs of, K. F. MATHER, 198  
Manpower, Technological, 488  
Map, Tectonic, of the United States, 577; Azimuthal Equidistant, H. H. HOWE, 638  
"Marfanil" Deamination, K. H. BEYER and W. M. GOVIER, 150; Inactivation, F. and M. L. C. BERNHEIM, 547  
Marine Fouling and its Prevention, M. COPISAROW, 406  
MARSHAK, A. and A. C. WALKER, Mitosis in Liver, 94  
MASON, J. A., Languages of South America, 259  
Mathematicians, Portraits, G. A. MILLER, 223  
MATHER, K. F., "Needs of Man," 198  
MAYER, J., Postwar Employment, 367  
MENKIN, V., Inflammatory Exudates, 422  
MERRILL, E. D., Russia and European Herbaria, 355  
Merthiolate and Precipitation Reactions, D. PRESSMAN and A. L. GROSSBERG, 254  
Micro-drill, W. R. WAGNER, 127  
Microorganisms, Pathogenicity and pH Tolerance, J. M. LEISE and L. H. JAMES, 437  
Microscope, Chin Focus Adjustment, E. S. HEGRE and R. F. BLOUNT, 126  
Microscopy, Indices in Polarized Light, P. W. WEST, 283  
Microviscometer, E. R. WEYER, 521  
Migration, Bird Flight and, M. BROOKS, 329  
MILBETH, J. A. and S. M. ZELLER, Viruses in Stone Fruits, 114  
MILHORAT, A. T. and W. E. BARTELS, Tocopherol and Muscular Dystrophy, 93  
MILLER, G. A., Portraits of Mathematicians, 223  
MINETTE, H. P., Leptospira, Slide Agglutination, 256  
Mold Preventive for Books, D. C. HETHERINGTON, 223  
MOORE, J. S., Threat to Pure Science, 62  
MORRIS, H. P., Exercise, Food and Cancer, 457  
Mosquitoes, Recording of Sounds Produced by, M. C. KAHN *et al.*, 335; "Angry," F. A. BEACH, 610  
MOULTON, F. R., Editing of SCIENCE, 8; American Society of Parasitologists, 39  
MUIR, R. D. and G. VALLEY, Penicillin Sterility Test, 390  
Muscle, Regeneration, I. A. POGGIEFF and M. R. MURRAY, 174  
Muscular Dystrophy, A. T. MILHORAT and W. E. BARTELS, 93  
Museum, Natural History, American, 168  
MYERS, W. G. and H. J. HANSON, Penicillium Notatum, 357  
Myxomatosis, R. B. HOULIHAN and W. A. DERRICH, 364  
National: Security, Research Board, K. T. COMPTON, 226; Research Council, Agricultural Board, 296; Fellowships in the Natural Sciences, 322; Foundation for Infantile Paralysis, 374; Security, Science Education for, 461; Grants Advisory Cancer Council, 662  
NEEDHAM, J., Dr. Novikoff's Article, 582  
NEGHEM, A., Penicillin Sodium Treatment of Trypanosomiasis, 115  
NEISH, A. C. *et al.*, 2,3-Butanediol-Glycerol Fermentation, 245  
NOVA, (T) Pyxidid, Outburst, L. CAMPBELL, 429  
NOVIKOFF, A. B., Integrative Levels and Biology, 209  
Novikoff's, Article, J. NEEDHAM, 582  
Nerve Terminations, P. B. ARMSTRONG, 327  
NEURATH, H. *et al.*, Serological Diagnosis of Syphilis, 68  
NEWCOMER, E. H., Colchicine a Growth Stimulator, 677  
Nutrient Berries and Epsom Salts, W. L. POWERS, 301  
Nutrition: Institute, 12; in Cancer Prevention, V. R. POTTER, 105; Human, B. ALEXANDER and G. LANDWEHR, 229; Foundation, 241; 402; Plant Breeding and Human, R. J. GABBER, 288; and Tuberculosis, 531  
NUTTING, P. G., Solution of Soil Minerals in Acids, 619  
Obituaries: Bean, Robert Bennett, W. B. BEAN, 346; Botanists, Russian, V. C. ASMUS, 166; Dewey, Lyster Hoxie, H. T. EDWARDS, 11; Eddington, A., H. N. RUSSELL, 215; Elmer, A. D. E., A. W. C. T. HERRE, 477; Gibson, Charles Le Roy, J. D. CLARK, 31; Holgate, Thomas Franklin, E. J. MOULTON, 528; Howell, William Henry, J. ERLANGER, 575; Ives, S. A., J. R. SAMPEY, JR., 240; Jones, Lewis Ralph, G. W. KEITT, 658; Poindexter, Oscar Floyd, H. M. MARTIN, 264; Record, Samuel J., P. C. STANDLEY, 293; Slocum, Frederick, C. L. STEARNS, 136; Spaulding, Milo Herriek, C. A. TRYON, JR., 602; Sperling, Edward O., L. J. BRIGGS, 576; Trelease, William, J. T. BUCHHOLZ, 192; Waite, Merton B., A. F. WOODS, 632  
Observatory, Harvard College, 304  
ODUM, E. P., Heart Rate of Birds, 153  
Organisms in Cyanide, Activity, W. ROBBIE, 649  
OSWALD, E. J. and W. A. RANDALL, Penicillin, 99  
PAPANICOLAOU, G. N. and V. F. MARSHALL, Cancer, 519  
Parenteral, Therapy, Intravenous, B. ZIMMERMANN, 567  
PARKINS, W. F. *et al.*, Blood Level of Penicillin, 203  
PATTERSON, J. T., Sperm Eggs of Insects, 156  
Penicillin: Diffusion Constant, E. H. FRIEDEN, 21; Recommendations, 42; Assay, L. F. KNUDSEN, 46; and Plasma Proteins, B. F. CHOW and C. M. MCKEE, 67; Plate Assay, E. J. OSWALD and W. A. RANDALL, 99; Treatment of Trypanosomiasis, A. NEGHEM, 115; Activity, R. T. FISK *et al.*, 124; Oral, R. L. LIBBY, 178; W. McDERMOTT *et al.*, 228; J. C. KRANTZ, JR., *et al.*, 618; Blood Level, W. F. PARKINS *et al.*, 203; Acid from, J. W. FOSTER, 205; Sterility Test, R. J. HICKEY, 232; R. D. MUIR and G. VALLEY, 390; Excretion, J. CHARNY *et al.*, 251; Gram-Negative Bacilli to, G. SCHWARTZMAN, 276; and Intracellular Bacteroids, C. T. BRUES and R. C. DUNN, 336; Purification, E. CRUZ-COKE *et al.*, 340; in Body Fluids, W. A. RANDALL *et al.*, 365; Esters, Regeneration, R. J. HICKEY, 462; Water-in-Oil Emulsions, J. FREUND and K. J. THOMSON, 468; Absorption, D. PERLSTEIN *et al.*, 562; World Standard, P. HARTLEY, 637; Blood, Concentrations, J. BRONFENBRENNER and C. B. FAVOUR, 673  
Penicillium Notatum: New Strains, W. G. MYERS and H. J. HANSON, 357; Quinones and, F. GONZALEZ, 494  
PENNISTON, V. J. and L. R. HEDRICK, Dirty Eggs, Germicidal Efficiency of Emulsept and of Choline, 362  
PERLSTEIN, D. *et al.*, Absorption of Penicillin, 562  
Photoperiodicity, Simulation of, F. W. WENT, 97  
"Photoperiodism," V. A. GREULACH, 353  
Pigeons, Homing, C. S. PLATT and R. S. DARE, 439  
Pigment and Biochrome, F. B. SUMNER, 114  
Pinta, Transmission, F. LEON-BLANCO and A. OTEIZA, 309  
PITZER, K. S., Strain Energies of Cyclic Hydrocarbons, 672  
Plant and Animal Stocks, W. LANDAUER, 497  
Plasma: 67; Filtration, L. RANE and D. M. BALDWIN, 494  
Plasmodium Vivax Chesson Strain, F. C. EHRMAN *et al.*, 377  
PLATT, C. S. and R. S. DARE, Homing in Pigeons, 439  
POGGIEFF, I. A. and M. R. MURRAY, Regeneration of Muscle in Vitro, 174  
Poison Ivy, Inactivation, I. W. SIZER and C. E. PROKESCH, 517  
Pollution Abatement of Streams, R. D. HOAK, 523  
POMES, A. F. and G. W. IRVING, JR., Lyophilization, 22  
Porphyrins, S. GRANICK and H. GILDER, 540  
POTTER, V. R., Nutrition in Cancer Prevention, 105; Enzyme-Virus Theory of Cancer, 609  
POWERS, P. N., Shortage of Scientific Personnel, 612  
POWERS, W. L., Nutrient Value of Berries, 301  
Precipitin Test, Quantitating, H. L. ALEXANDER *et al.*, 547  
PRESSMAN, D. and A. L. GROSSBERG, Merthiolate and Precipitation Reactions, 254

- PRICE, W. C., Bean Mosaic Virus, 515  
PRILL, E. A. *et al.*, Insecticidal Activity of DDT, 464  
Protein Intake and Xanthine Oxidase Activity, E. B. MCQUARRIE and A. T. VENOSA, 493  
Proteins, Drying from Frozen State, W. H. SEEGER, 284  
Psychology, Human, Rats and, E. C. TOLMAN, 160  
Publications, Plea for, G. BARAC, 586  
PUETZER, B. *et al.*, Synthesis of Clavacin Isomer, 307  
Putty, An Inorganic Bouncing, D. L. HANNA, 407
- Quinine from Remijia Bark, G. M. HOCKING, 484
- Race Differences, H. E. GARRETT, 16, 404; H. G. BIRCH, 173; M. J. HERSKOVITS, 200  
Radiometer and Sir Isaac Newton, C. G. ABBOT, 244  
RANDALL, W. A. *et al.*, Penicillin in Body Fluids, 365  
RANE, L. and D. M. BALDWIN, Citrated Plasma, 494  
Ranunculaceae, Antibiotic Activity of Extracts, B. C. SEEGAL and M. HOLDEN, 413  
Rat Kidney Cocarboxylase, Changes in, W. H. FISHMAN and W. M. GOVIER, 277  
RAY, C. N., Phosphorescent Earthworms, 271  
Rehabilitation of Physically Handicapped, 502  
REINHARDT, W. O. and C. H. LI, Depression of Lymphocyte Content, 360  
REMINGTON, R. E. and C. L. SMITH, Spinach and Bone Formation, 271  
Research: Sugar Foundation Grants, 34; 110; 426; Grants, American Medical Association, 83; Publication Policy, P. WEISS, 101; Agriculture, J. H. MACGILLIVRAY *et al.*, 143; Students, Industrial, A. W. HULL, 157; Board for National Security, K. T. COMPTON, 226; in India, 240; Institute, W. A. LAZIER, 249; for Social Progress, A. GREGG, 257; Languages of South America, J. A. MASON, 259; Council, National, Fellowships in Natural Sciences, 322; Biological, and Publication, T. D. A. COCKERELL, 377; After the War, L. K. FRANK, 433; Corrosion, 452; Welfare Conference, 478; War, at Mellon Institute, W. A. HAMOR, 510; Productivity, P. E. KLOPFEG, 569; General Electric, 632; Great Lakes Institute, 660  
Respiration, Anaerobic, or Fermentation, W. SEIFRIZ, 88; D. R. GODDARD, 352; G. T. SCOTT, 585  
Reviews: 17, 18, 39, 41, 64, 65, 90, 92, 117, 118, 145, 146, 147, 175, 176, 201, 202, 224, 225, 248, 249, 273, 275, 302, 303, 330, 356, 357, 378, 408, 431, 432, 460, 461, 487, 509, 538, 561, 586, 587, 622, 623, 650, 652, 679  
Rheumatic Fever, D. D. RUTSTEIN *et al.*, 669  
RICHARDS, M. C., Light Box for Taking Photographs, 312  
River, Tertiary, K. VER STEEG, 329  
ROBBIE, W., Activity of Organisms in Cyanide, 649  
ROBBIE, W. A. and P. J. LEINFELDER, Manometric Apparatus for Respiratory Studies of Small Animals, 48  
ROLLER, D., International Language for Sciences, 299  
Rooting Greenwood Cuttings, V. T. STOUTMYER *et al.*, 546  
Rubber, Growing, R. W. KEITH, 508  
RUBEN, J. A. and R. S. TIPSON, Alloxan in Livers, 536  
RUBINSTEIN, H. S., Sleep-Electro-Shock Therapy, 430  
RUEGAMER, W. R. and C. A. ELVEHJEM, Iron Enriched Bread, 206  
Russian: Transliteration, G. M. KOSOLAPOFF, 175; J. B. HICKMAN, 460  
RUTSTEIN, D. D. *et al.*, Rheumatic Fever, 669  
RYFF, J. F. and A. M. LEE, Susceptibility of Hamsters to Clostridium Chauvei, 361
- SABIN, A. B. and R. W. SCHLESINGER, Immunity of Dengue with Virus, 640  
SALK, J. E., Influenza Virus, 122  
Salt Series, Punjab Age, E. W. BERRY, 87  
SAWYER, C. H., Hydrolysis of Choline Esters, 385  
SAX, K., Demographic Dilemma, 325  
SCHEER, B. T., Activation of Marine Eggs, 645  
Schistosoma Mansonii, Host, E. B. CRAM *et al.*, 302  
SCIENCE, Editing of, F. R. MOULTON, 8  
Science: Pure, J. ALEXANDER and A. W. STERN, 37; J. S. MOORE, 62; J. R. BAKER, 300; Talent Search, P. F. BRANDWEIN, 117; 266; Staffing Departments, M. H. TRYTTEN, 172; Nation's Future, A. H. COMPTON, 207; after the War, H. E. SIGERIST, 246; Talent in Youth, H. A. EDGERTON and S. H. BRITT, 247; Society for Freedom in, J. R. BAKER *et al.*, 273; International Auxiliary Language, D. ROLLER, 299; Fellowships of the Natural, National Research Council, 322; Memorial Loan Fund for Students, 348; Experiments in Social, H. F. CLARK, 393; Bureau at Manila, 401; Social Education for, S. D. DODGE, 419; and the Draft, H. GRUNDFEST, 486  
Scientific: Periodicals, E. R. CUNNINGHAM, 62; Terminology and Classification, G. M. KOSOLAPOFF, 89; Names, Orthography, C. H. BLAKE, 174; Interchange of U. S. and Russia, L. C. DUNN, 200; Research in India, 240; Knowledge, H. M. DADOURIAN, 611; Personnel Shortage, P. N. POWERS, 612; Men, French, 662  
SCOTT, G. T., Anaerobic Respiration vs. Fermentation, 585  
SCRIMSHAW, N. S., Volumetric Flasks and Foam, 156  
Scurvy in Parry Expedition of 1819, A. J. LORENZ, 36  
Seaweed Colloids, Terminology, C. K. TSENG, 597  
SEEGAL, B. C. and M. HOLDEN, Antibiotic Activity of Extracts Ranunculaceae, 413  
SEEGER, W. H., Drying Proteins from the Frozen State, 284; *et al.*, Thrombin and Fibrin, 520  
SEIFRIZ, W., Anaerobic Respiration, 88  
SENN, J. B., Gases in a Closed System, 393  
Serum, Gamma-Globulin in Human Lymphocytes, E. H. KASS, 337  
SHELLENBERGER, J. A., Education in Argentina, 64  
SHWARTZMAN, G., Penicillin, 276  
SIEGEL, L., Microbiological Determinations of Choline, 674  
SIGERIST, H. E., Science Departments, Postwar, 246  
SIMPSON, G. G., Scientific Strength of Universities, 506  
SIMPSON, W. F., Simple Volumeter, 443  
SINGER, H. O. and L. MARINELLI, Radioactive Sulfur, 414  
Sino-American Friendship, E. H. WALKER, 38  
SIZER, I. W., and C. E. PROKESCH, Inactivation of Poison Ivy, 517  
Sleep-Electro-Shock Therapy, H. S. RUBINSTEIN, 430  
Slide Rules, A and B Scales, C. E. BROWN, 522  
SMITH, F. G. W., Coleoptera on American Shores, 17  
SMITH, F. W., Hormonal Influence, 279  
SMITH, G. M., Marine Algae of California, 188  
SMITH, M. C. and E. CALDWELL, Ascorbic Acid Values and Foods, 308  
SMITH, W. V., Temperature Tolerance of Germplasm, 460  
Smithsonian Institution, Board of Regents, 84  
SNYDER, L. H., Rh Blood Types, Nomenclature, 62  
Societies and Associations: Mathematical, American, Cole Prize, 13; Physical, American, 13; Royal, Address of the President, H. DALE, 23; Parasitologists, American, F. R. MOULTON, 39; Entomologists, 58; National Malaria, 58; American Phytopathological, E. N. CORY, 58; Mineralogical Award, 111; American Institute, Electrical Engineers, Officers, 138; Zoological, N. Y., 147; Rancho Grande Station, 195; Geographic, National, 216; Meteorological, American, 217; Geological, Economic, 295; Pittsburgh, 530; Chemical, American, 321, 503; Physics, 349; Royal, 372; Shell, Research Club and Sigma Xi, 373; Philosophical, American, 453; Sigma Alpha and Alpha Epsilon Delta, 531; Sigma Xi, 604; Geophysical Union, 633; Astronomical, American, 634; Chemical, American, 661  
SOMERS, G. F. and M. H. COOLIDGE, Thiamin and Riboflavin in Wheat Grains, 98  
Spirochetes, Staining, C. L. WISEMAN, JR., 392  
Sponge Names, M. W. DE LAUBENFELS, 354  
STANGER, F. M., Fossil Discovery in California, 559  
STANLEY, W. M., Conquest of Virus Diseases, 185; Influenza Virus, Vaccine and Calcium Phosphate, 332  
STARK, O. K., Cotton Plugs for Culture Tubes, 521  
Starred Men in "American Men of Science," S. S. VISHER, 272; R. W. POSTER, 639  
STEERE, W. C., Botanical Work of Cinchona Missions, 177

- Stellar, Pulsation Theory, D. B. McLAUGHLIN, 535  
 STERN, C. and D. R. CHARLES, Consanguinity, 305  
 STEVENSON, E. C. and J. W. MITCHELL, Bacteriostatic and Bactericidal Properties of 2,4-Dichlorophenoxyacetic Acid, 642  
 STIFF, H. A., JR. and J. C. CASTILLO, Micro-determination of 2,2 bis (P-Chlorophenyl) 1,1,1 Trichlorethane (DDT), 440  
 STOHLER, R. and A. G. COOLING, Toads in the Marianas, 678  
 STOKES, J. L. and M. GUNNESS, Pyridoxamine and Synthesis of Amino Acid by Lactobacilli, 43  
 STOKES, W. L., Quarry for Dinosaurs, 115  
 STOLL, A. M. *et al.*, Ultraviolet Radiation on Cysts of *Endamoeba Histolytica*, 463  
 STOUTMYER, V. T. *et al.*, Rooting Cuttings, 546  
 Streptothricin and Streptomycin, J. FRIED and O. WINTERSTEINER, 613  
 STRONG, L. C., Author of the Voynich Manuscript, 608  
 Sulfonamide Drugs, Sale of, G. M. MACKEE *et al.*, 409  
 Sulfonamides and Egg-Shell Formation, R. BERNARD and P. GENEST, 617  
 Sulfur, Distribution of Radioactive, H. O. SINGER and L. MARINELLI, 414  
 SULKIN, S. E., Encephalomyelitis Virus, 381  
 SUMNER, F. B., Pigment and Biochrome, 114  
 Sunflower Seed Meal, H. G. DAY and E. LEVIN, 438  
 Sun's Wave Radiation, Periodicity, C. G. ABBOT, 483  
 Survive!, Shall They, E. V. COWDRY, 625  
 Syphilis, Serological Diagnosis, H. NEURATH *et al.*, 68  
 TAFT, C. H., Amino Acids, 144  
 TANNER, F. W. *et al.*, Riboflavin Production, 180  
 Telephone Laboratories at Murray Hill, N. J., 554  
 Temperature Observation, Petri Dish, R. WICHTERMAN, 184  
 Termite Repellent, Phenol, G. N. WOLCOTT, 444  
 Thiamine and Dropping Mercury Electrode, A. WOLLENBERGER, 386  
 THOMAS, L. J., Handler for Small Mammals, 496  
 Thrombin and Fibrin, W. H. SEEGER *et al.*, 520  
 Thromboplastin, Placental, A. L. COPLEY, 436  
 Toads in the Marianas, R. STOHLER and A. G. COOLING, 678  
 TOLMAN, E. C., The Rat and Human Psychology, 160  
 Transplantation, Intracardiac, E. S. HEGRE, 469  
 Trypsin, and Chymotrypsin versus Heparin, M. K. HORWITT, 376; Inhibitor from Soybean, M. KUNITZ, 668  
 TRYTTEN, M. H., Staffing Science Departments, 172  
 TSENG, C. K., Terminology of Seaweed Colloids, 597  
 Tuberculosis: *Mycobacterium*, I. N. ASHESHOV and F. STRELITZ, 119; I. E. GERBER and M. GROSS, 616; and Nutrition, 531  
 TUKEY, H. B. and C. L. HAMNER, Fruits Abscission, 253  
 Typhosa, E., W. F. ELIAS and J. DURSO, 589  
 Typhus Commission of the U. S. A., 110  
 Universities and Colleges: Michigan State, Institute of Nutrition, 12; Cambridge, Gift of Scientific Instruments and Books, 32, Endowment of Chemical Engineering, 266; Columbia, Computing Laboratory, 168, Honorary Degrees, 634; Yale, 169; Harvard Observatory, 304; Loans for Students, 348; Strength in Scientists, S. S. VISHER, 272; G. G. SIMPSON, 506; Wichita, Industrial Research, 295; Imperial, Science and Technology, 478; Virginia, Optical Library, 530; Syracuse Fluid Mechanics Laboratory, 603, Industrial Electronics at, 661  
 Urea, Urethane and other Carbamates and Bacterial Growth, L. WEINSTEIN and A. McDONALD, 44  
 Urease Test for *Proteus*, T. G. ANDERSON, 470  
 VAN HOUTEN, F. B., Early Cenozoic Facies, 430  
 VAN REMELAR, M., U. S. Botanical Garden, 678  
 VAZ, Z. *et al.*, Calcium and DDT Poisoning, 434  
 VER STEEG, K., A Tertiary River, 329  
 VINSON, L. J. *et al.*, Nutritive Value *Fusaria*, 388  
 Virus: Influenza, J. E. SALK, 122; PR8, C. A. KNIGHT, 231; Influenza, Vaccine and Calcium Phosphate, W. M. STANLEY, 332; Encephalomyelitis, S. E. SULKIN, 381; Poliomyelitis, R. WARD *et al.*, 491; Bean Mosaic, W. C. PRICE, 515; Swine Influenza, J. W. BEARD *et al.*, 544; Bacterial, T. F. ANDERSON, 565; Electron Shadow, R. C. WILLIAMS and R. W. G. WYCKOFF, 594; Enzyme, Theory of Cancer, V. R. POTTER, 609; Immunity of Dengue, A. B. SABIN and R. W. SCHLESINGER, 640; Inactivating Substances, D. JONES *et al.*, 665  
 Viruses in Stone Fruits, J. A. MILBRATH and S. M. ZELLER, 114; Biophysical Problems, R. W. G. WYCKOFF, 129; Diseases, Conquest, W. M. STANLEY, 185  
 VISHER, S. S., "American Men of Science," 272  
 Vision, Impairment and Anoxia, W. C. HALSTEAD, 615; Human, and the Spectrum, G. WALD, 653  
 Vital Statistics of Australia, 57  
 Vitamins: Riboflavin, Thiamin, G. F. SOMERS and M. H. COOLIDGE, 98; Production, F. W. TANNER *et al.*, 180; Thiamine and Niacin in Deep Fat Cooking, G. J. EVERSON and A. H. SMITH, 338; A. A. LOWMAN, 183; Reaction with Super-Filtrol, H. R. KREIDER, 377; on Acid Earths, Coloration, L. ZECHMEISTER and A. SANDOVAL, 585; E-Deficient Rats, H. GRANADOS and H. DAM, 250  
 Volcano, Paricutin, 137, 530  
 Volumetric Plastics and Foam, N. S. SCRIMSHAW, 156  
 Voynich Manuscript, Author of, L. C. STRONG, 608  
 WAGNER, W. R., Micro-drill, 127  
 WALD, G., Human Vision and the Spectrum, 653  
 WALKER, E. H., Sino-American Friendship, 38  
 War: II, Medical History, 12; and Engineering Education, 110; Research, W. A. HAMOR, 510; Post-, L. K. FRANK, 433; R. J. WILLIAMS, 537; 679; T. D. A. COCKERELL, 639; Science Departments, M. H. TRYTTEN, 172; H. E. SIGERIST, 246; Biology and Agriculture, R. F. GRIGGS, 235; International Language for Science, D. ROLLER, 299; Employment, J. MAYER, 367  
 WARD, R. *et al.*, Poliomyelitis Virus in Food, 491  
 WAY, E. L., Anesthetic Properties of Isoipecaine, 566  
 WEINSTEIN, L. and A. McDONALD, Effect of Urea, Urethane and other Carbamates on Bacterial Growth, 44  
 WEISS, P., Research Publication Policy, 101  
 WENSTRUP, E. J., Encystment and Excystment in Chaos, 407  
 WENT, F. W., Photoperiodicity by Thermoperiodicity, 97  
 WEST, P. W., Indices in Polarized Light Microscopy, 283; and E. S. AMIS, Microcalorimetric Electrode for Polarographic Measurements, 71  
 WEYER, E. R., Microviscometer, 521  
 WICHTERMAN, R., Temperature Observation, 184  
 WILDER, R. M., Dietary Allowances, 285  
 Wildlife Conservation in Missouri, 321  
 WILLIAMS, C. M., Insect Physiology, 622  
 WILLIAMS, R. C. and R. W. G. WYCKOFF, Electron Shadow of Micrography Virus, 594  
 WILLIAMS, R. J., Chemists, "Starring" in "American Men of Science," 222; Employment, 537; 679  
 WILLIAMS, W. O., Grapevine Injection Apparatus, 416  
 WINOKUR, M., Stirrer for Gas-Flow Apparatus, 49  
 WISSEMAN, C. L., JR., Staining Spirochetes, 392  
 WOLCOTT, G. N., Phenol as a Termite Repellent, 444  
 WOLLENBERGER, A., Thiamine and Dropping Mercury Electrode, 386  
 WYCKOFF, R. W. G., Biophysical Problems of Viruses, 129  
 ZECHMEISTER, L. and A. SANDOVAL, Coloration by Vitamin A on Acid Earths, 585  
 ZIMMERMAN, B., Intravenous Parenteral Therapy, 657  
 Zoological Nomenclature, International Commission, 602

ND

TT,  
M.  
1;  
C.  
4;  
w,  
e,  
of  
0;

M.  
FF,

5;

H.  
0;  
J.  
3;  
on  
N-  
H.

ca-  
K.  
A.  
EN,  
R.  
ce,

3  
Ur-  
44

os,

97  
33;  
ro-

low  
can

ury

129

ita-

302